

Estes Industries

1295 H Street Penrose, CO 81240 Printed In China

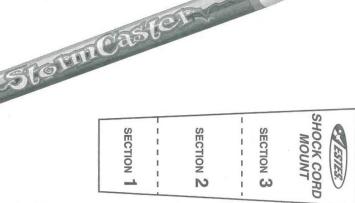
### **ASSEMBLY TIP**

Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

TEST-FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE. If any parts don't fit properly, sand as required for precision assembly.

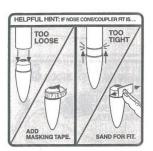
#### FLYING MODEL ROCKET KIT KEEP FOR FUTURE REFERENCE

**EST 1301** 

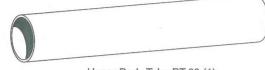


## **PARTS**

Locate the parts shown below and lay them out on the table in front of you. DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET.



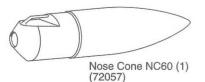




Upper Body Tube BT-60 (1) (30397)



(31189)





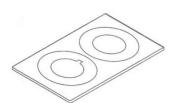
Red Tube Coupler 60C (1) (30176-5)



Yellow Spacer Tool ET-6 'D' (1)







Engine Hook Retainer (1) (30450)



AR2050 (1)

(30164-2)

Die Cut Card Adapter Rings RA5060 (1) (30132) Engine Hook (1) (35021)



1/4" x 36'

(38382)

Shock Cord (1)

Assembled Parachute 18" (46 cm) (1) (35802)

Decal Sheet (1) (37717)

Balsa Sheet (1)

(32394)

SUPPLIES In addition to the parts included in the kit you will also need:



















SCISSORS PENCIL RULER FINE

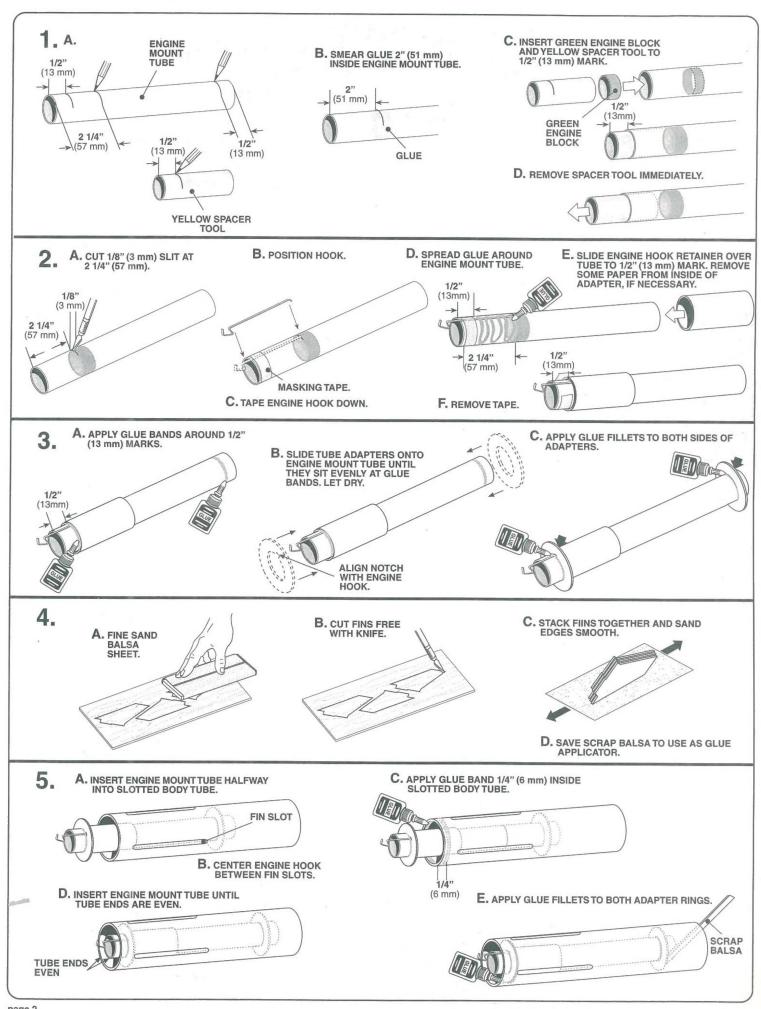
SAND PAPER (#400-600 GRIT)

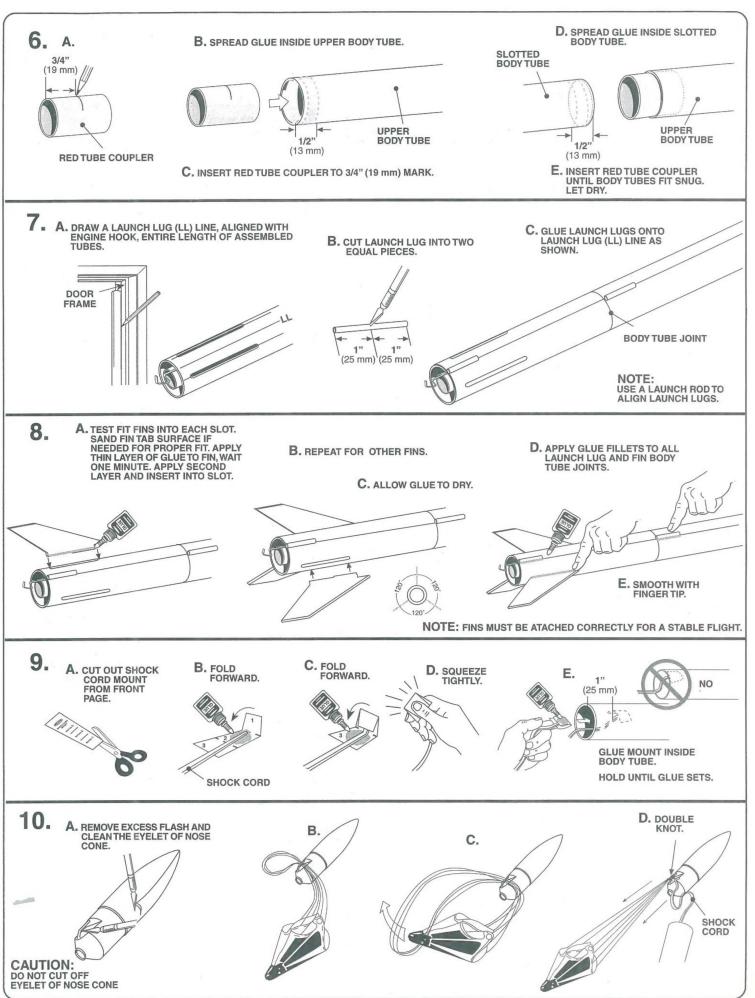
MODELING

MASKING TAPE

SPRAY PAINT: (YELLOW & CHARCOAL PRIMER (WHITE)

SPRAY CLEAR COAT (OPTIONAL)





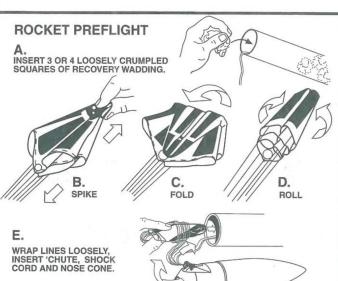
#### PAINT SCHEME

FIRST SPRAY ROCKET WITH WHITE PRIMER, LET DRY AND SAND. REPEAT UNTIL ROCKET IS SMOOTH. FOLLOW THE PAINT SCHEME ON THE FRONT PANEL OR DESIGN YOUR OWN.



PEEL DECALS ONE AT A TIME FROM BACKING SHEET AND APPLY WHERE SHOWN. RUB DOWN TO REMOVE BUBBLES.

\*OPTIONAL-CLEAR COAT ENTIRE ROCKET WHEN COMPLETE.



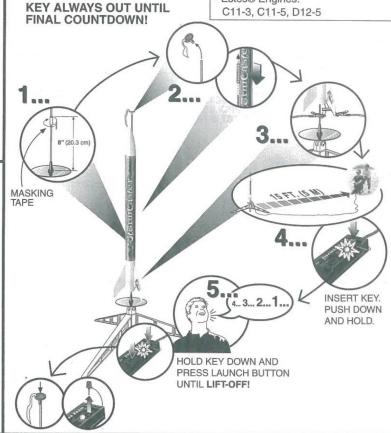
#### COUNTDOWN AND LAUNCH

#### **LAUNCH SUPPLIES**

(Sold Separately)

- Estes® Porta Pad® II Launch Pad (Requires 3/16" (5 mm) Maxi™ Rod-Sold Separately)
- Electron Beam® Controller
- Recovery Wadding
- · Igniters (with Engines)
- Igniter Plugs (with Engines)
- Estes® Engines:

C11-3, C11-5, D12-5

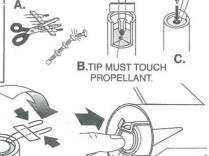


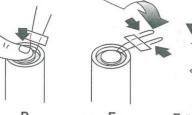
#### **ENGINE PREP**

WARNING: FLAMMABLE Before proceeding read instructions & NAR Safety Code included with engines.

PREPARE YOUR ENGINE ONLY WHEN YOU ARE **OUTSIDE AT THE LAUNCH** 

SITE PREPARING TO LAUNCHI If you do not use your prepared engine, remove the igniter before storing your engine







NAR Safety Code

















NO DRY GRASS OR WEEDS

# **FLYING YOUR ROCKET**

Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

Always follow the National Association of Rocketry (NAR) SAFETY CODE.

# **MISFIRES**

TAKE THE KEY OUT OF THE CONTROLLER, WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.